

WESTIN

Appl. No. 10/581,607

November 3, 2008

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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1 (currently amended). A steel corrosion resistant material ~~having a good resistance to corrosion, characterised in that it~~ which consists of an alloy containing in % by weight:

max 0.12 C

0.5-1.5 N

12-18 Cr

max 0.5 Mn

max 0.5 Ni

1-5 (Mo + W/2)

min 0.3 Nb

max 1.5 (V + Nb/2 + Ti)

0.1-0.5 Si

from traces and up to max 2.0 Co

from traces and up to max 0.1 S

balance iron and ~~essentially only~~ incidental impurities ~~at normal contents.~~

2 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein after hardening and tempering, it has a hardness of 58-65 HRC and a microstructure containing 3-6 % by volume of ~~the two hard phases M(N,C) and Cr₂N in~~

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~~a matrix that essentially is constituted by tempered nitrogen martensite, which nitrogen martensite comprises 5-20 % residual austenite.~~

3 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein it contains max 0.11 C, ~~preferably 0.02-0.10 C.~~

4 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein it contains 0.7-1.2, ~~preferably 0.8-1.0 N.~~

5 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein it contains 12.5-17, ~~preferably 13-16 Cr.~~

6 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein it contains max 0.4, ~~preferably max 0.3 Mn.~~

7 (currently amended). A steel material according to ~~any one of claims 1-6, characterised in that~~ claim 1, wherein it contains max 0.4, ~~preferably max 0.3 Ni.~~

8 (currently amended). A steel material according to claim 1, ~~characterised in that~~ wherein it contains 2-4, ~~preferably 2.5-3.5 (Mo + W/2).~~

9 (currently amended). A steel material according to ~~any one of claims 1-8, characterised in that~~ claim 1, wherein it contains 0.05-0.3, ~~preferably 0.1 V.~~

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10 (currently amended). A steel material according to claim 1, characterised in that wherein it contains 0.3-0.7, preferably 0.5 1.0 Nb.

11 (currently amended). A steel material according to claim 2, characterised in that wherein it has been hardened by austenitizing at 1000-1200 °C, preferably at 1050-1150 °C and most preferred at 1100-1150 °C, deep cooled at -80 -- 200 -80 to -200 °C, and thereafter tempered at a temperature of 400-560 °C, preferably at 430-500 °C and most preferred at 460-500 °C.

12 (currently amended). A steel material according to claim 11, characterised in that wherein it has a hardness of 60-64 HRC and most preferred about 62-63 HRC.

13-14 (canceled).

15 (currently amended). A steel material according to claim 1, characterised in that wherein it is soft annealed and that in the soft annealed condition it has a hardness of 220-250 HB (Brinell hardness), preferably 230-240 HB.

16 (currently amended). A steel material according to claim 1, characterised in that wherein it is a powder metallurgically manufactured material.

17-21 (canceled).

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22. (new) A steel material according to claim 1, wherein it contains 0.02–0.10

C.

23. (new) A steel material according to claim 1, wherein it contains 0.8–1.0 N.

24. (new) A steel material according to claim 1, wherein it contains 13–16 Cr.

25. (new) A steel material according to claim 1, wherein it contains max 0.3

Mn.

26. (new) A steel material according to claim 1, wherein it contains max 0.3

Ni.

27. (new) A steel material according to claim 1, wherein it contains 2.5–3.5

(Mo+W/2).

28. (new) A steel material according to claim 1, wherein it contains 0.1 V.

29. (new) A steel material according to claim 1, wherein it contains max 0.7

Nb.

30. (new) A steel material according to claim 11, wherein it has been hardened by austenitizing at 1100-1150 °C, deep cooled at -80 – -200 °C, and thereafter tempered at a temperature of 460–500 °C.

31. (new) A steel material according to claim 12, wherein it has a hardness of 60–64 HRC.

32. (new) A steel material according to claim 15, wherein it has a hardness of 230–240 HB.

33. (new) A knife or tool of steel material, wherein the steel material is the one defined in claim 16.

34. (new) A machine knife or manual knife of steel material, wherein the steel material is the one defined in claim 16.

35. (new) A steel material plastic moulding tool or injection screw for plastics, wherein the steel material is the one defined in claim 16.

36. (new) A steel material tool for cutting paper based laminated products for food and beverages, wherein the steel material is the one defined in claim 16.

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37. (new) A ball bearing of steel material, wherein the steel material is the one defined in claim 16.